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NOWY-SW-G**ERT****A RESOURCE ENGINEERING COMPANY**

886 VIRGINIA ROAD, CONHOCHU, MA 01742. (617) 353-8810

Successful bidder

ERT Reference No.: EAS:7057

ERT Document No.: XP-331J

environmental and engineering excellence

August 3, 1987

Mr. David Covey
FMC Corporation
Phosphorus Chemicals Division
Box 547
Nitro, West Virginia 25143

Subject: Proposal to conduct an ambient air and water sampling and analysis program for the Nitro, West Virginia landfill site (XP-331J).

Dear Mr. Covey:

ERT, a Resource Engineering Company, is pleased to submit this technical proposal and associated cost estimate for the air and water sampling program outlined in your letter of 23 July, 1987 to Mr. Joseph Curreri of ERT. Samples will be collected at the closed landfill site and analyzed for phenol and dimethyl phenol.

ERT is uniquely qualified to provide the air and water quality monitoring services necessary for this program. Our engineers and chemists are familiar with the Kanawha Valley, having conducted fugitive emission studies for two other chemical manufacturers in the Valley. ERT staff have worked with both the West Virginia Air Pollution Control Commission and the National Institute for Chemical Studies in Charleston, West Virginia to diagnose and solve air toxics problems. ERT maintains full in-house laboratory capabilities with staff skilled at trace-level analyses for pollutants.

The proposed technical approach for this program is presented in Attachment A. The sampling and analysis program designed for FMC will determine whether phenol and dimethyl phenol are being released into the water or air at significant levels at the closed municipal landfill site. ERT will follow approved EPA methodology for water and sludge analyses for these target compounds; air samples will be collected and analyzed under protocols which are based upon EPA methods and which have been validated by the ERT laboratory for a comprehensive air toxics measurement program currently in progress at a Superfund site.

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ERT is prepared to provide its services to FMC for the sampling and analysis program on a time and materials basis in accordance with ERT's Standard Commercial Terms. Actual costs will depend on the results of the three separate site visits, as the number of "seeps" found on each occasion will directly impact the sampling and analytical requirements of the program. For an evaluation scenario as suggested in the FMC Scope of Work for the Nitro Landfill Sampling, if each visit finds one "seep" and two water sample locations, the total cost of the program is estimated to be \$13,950.00. Details for the cost estimate are provided in Attachment B.

ERT will prepare a final report to present the results of the three site visits and the data from all analyses. This report will include a narrative of the landfill inspections and a map detailing sampling sites. Sampling and analytical methods will be discussed, and the quality assurance/quality control measures implemented will be provided.

ERT is prepared to initiate sampling one week after authorization by FMC to begin this program. Sampling will be performed on three separate occasions during August and September, on dates to be determined upon acceptance of this proposal by FMC. ERT does not anticipate difficulty in scheduling mutually convenient dates for this program. A written report will be provided by ERT to FMC within thirty (30) days of completion of the third site visit.

We thank FMC for the opportunity to submit this proposal, and look forward to providing these services. If you have any questions or comments regarding this proposal, please contact me at (617) 369-8910 Extension 508.

Sincerely yours,

Mark Greenberg (JTM)

Mark Greenberg
Senior Air Quality Scientist/Project Manager

ORIGINAL
(Red)

MS:lmz

Enclosures

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Attachment B

Time and Materials Cost Estimate

ERT is prepared to provide its services to FMC for the sampling and analysis program on a Time and Materials basis in accordance with ERT's Standard Commercial Terms (Attachment C). Field sampling costs are estimated on the assumption that each site visit will require one day to complete. Should greater than two "seeps" be detected on any one visit, additional time would likely be required for the air sampling, and costs would be adjusted accordingly.

Analytical requirements and attendant costs will depend directly on the results of the site survey. Detailed costs are provided for the cases of zero or one "seep" detections with two water samples. Additional samples would be analyzed on a fixed price per sample basis.

	per visit	program
Site Visit		
Equipment preparation, travel		
Field survey, sampling	\$2,100.00	\$6,300.00
Sample Analyses		
Case 1 - zero "seeps", two waters		
Air samples (3) - field blank,		
upwind, near fence	1,000.00	
Water samples (2)	400.00	
	<u>1,400.00</u>	
Case 2 - one "seep", two waters		
Air samples (4) - field blank,		
upwind, above "seep", fence		
near "seep"	1,300.00	
Seep material	350.00	
Water samples (2)	400.00	
	<u>2,050.00</u>	
Additional Sample Analyses as required		
Air sample (1)	275.00	
Seep Material	350.00	
Water sample	200.00	
Estimated analytical costs for 3 sites		6,150.00
Report Preparation and administration		3,500.00
Total Estimated Costs		15,950.00

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